

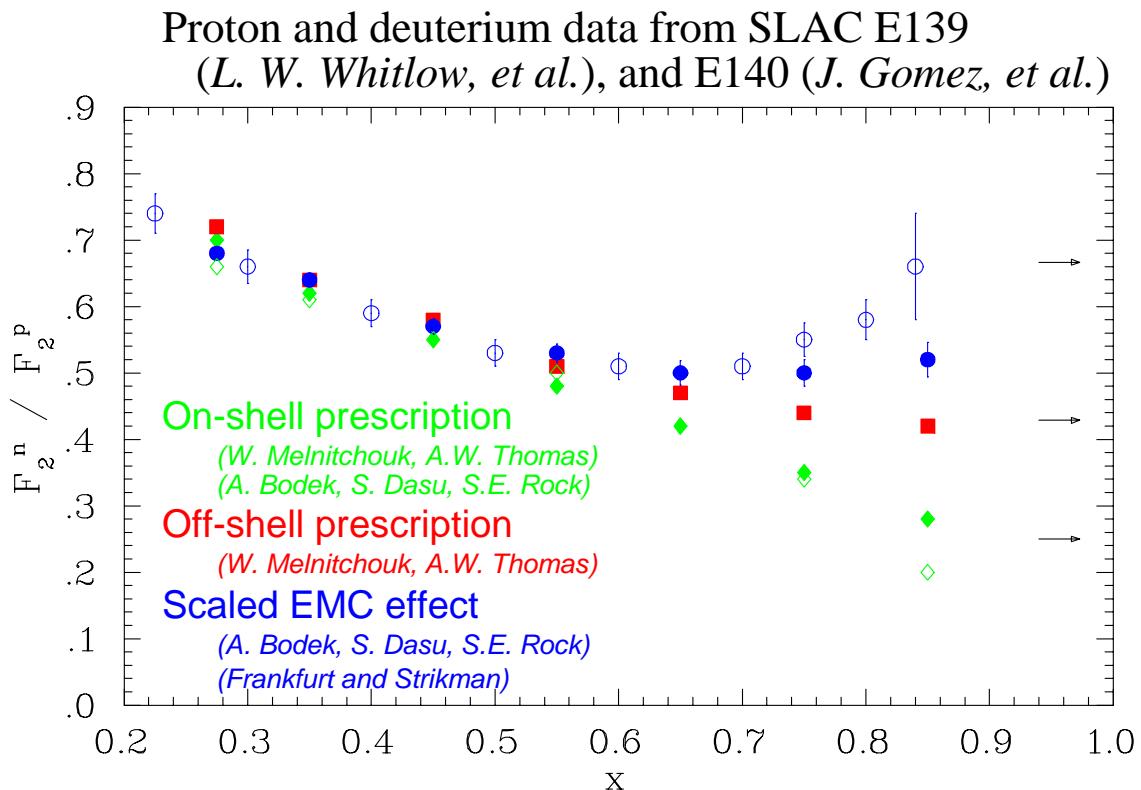
Neutron Structure Function.

Nucleon structure functions at large x are sensitive to valence quark distributions.

The ratio of F_2^p / F_2^n allows one to separate up and down quark distributions.

	d_v^p/u_v^p ratio	F_2^n / F_2^p
SU(6) symmetry	1/2	2/3
diquark S=1 suppression <i>(Close, et al.; Carlitz, et al.)</i>	0	1/4
diquark $S_z=1$ suppression <i>(Farrar and Jackson; Brodsky et al.)</i>	1/5	3/7

Extracting the neutron structure function from deuteron measurements requires a model of the nuclear effects.



The extraction of F_2^n is limited by our understanding of nuclear effects in deuterium.